ONKYO

A-8250

MODEL

SERVICE MANUAL

SPECIFICATIONS

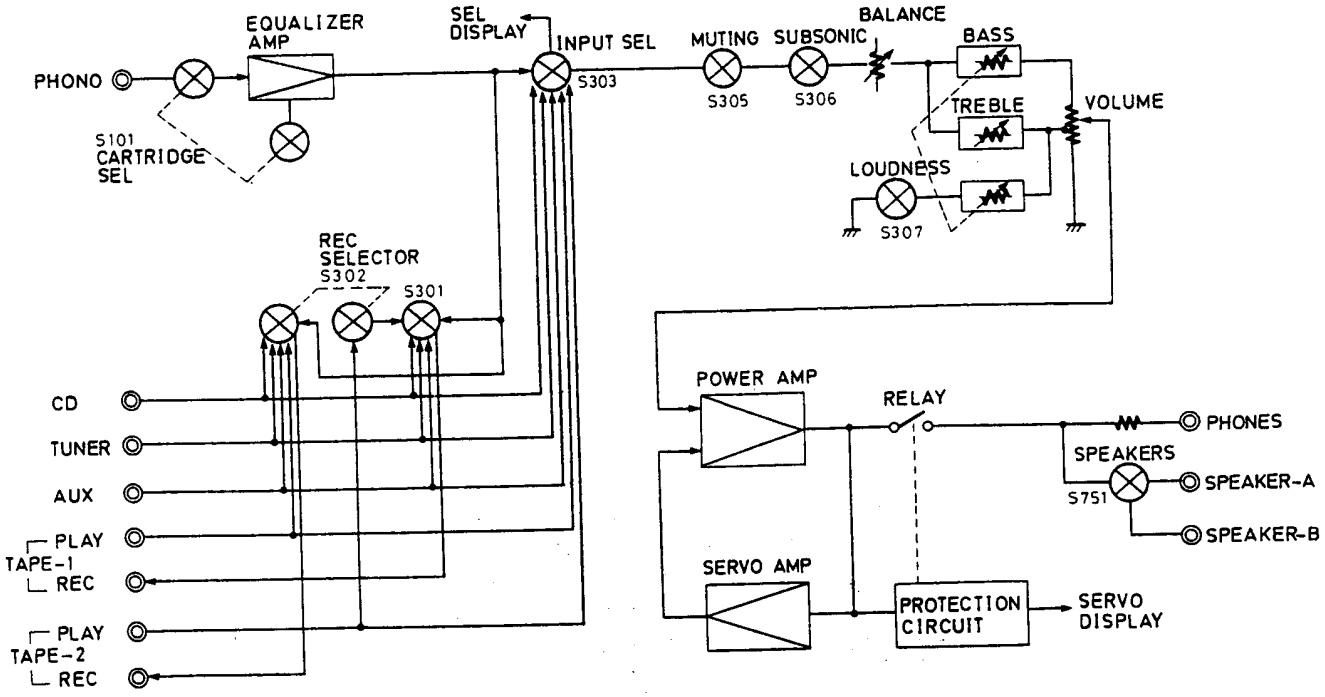
Music Power Output:	2 x 140 watts at 4 ohms, 1kHz (DIN) 2 x 100 watts at 8 ohms, 1kHz (DIN)
Continuous Power Output:	2 x 100 watts at 4 ohms, 1kHz (DIN) 2 x 75 watts at 8 ohms, 1kHz (DIN) 70 watts per channel, min. RMS, at 8 ohms, both channels driven, from 20 Hz to 20 kHz, with no more than 0.018% THD.
Total Harmonic Distortion:	0.018% at rated power
IM Distortion:	0.005% at rated power
Damping Factor:	50 at 8 ohms
Frequency Response:	2 – 50,000 Hz ± 1 dB
RIAA Deviation (MM):	20 – 20,000 Hz ± 0.5 dB
Sensitivity and Impedance:	Phono(MM): 2.5 mV/50 kohms Phono(MC): 160 μV/100/220 ohms Tuner: 150 mV/50 kohms Tape Play: 150 mV/50 kohms Tape Rec: 150 mV/1.5 kohms (phono)
Phono Overload:	200 mV RMS at 1 kHz, 0.018% THD
Bass Control:	±8 dB at 70 Hz
Treble Control:	±8 dB at 20,000 Hz
Signal to Noise Ratio:	Phono(MM): 80 dB (IHF A-202, 5 mV input, 1 watt output) Phono(MC): 70 dB (IHF A-202, 0.5 mV input, 1 watt output) Tuner & Tape: 84 dB (IHF A-202, 0.5 V input, 1 watt output)
Muting:	–20 dB
Loudness Control:	+6 dB at 70 Hz, +5 dB at 20 k Hz
Subsonic Filter:	15 Hz (6 dB/Octave)
High Cut (TREBLE MIN):	6 kHz (6 dB/Octave)

General

Power Supply:	AC220V, 50Hz
Semiconductors:	IC: 4 TR: 38 Diode: 43
Dimensions:	435(W) x 144(H) x 391(D)mm 17-1/8" x 5-5/8" x 15-3/8"
Weight:	10.5 kg. (23.2 lbs.)

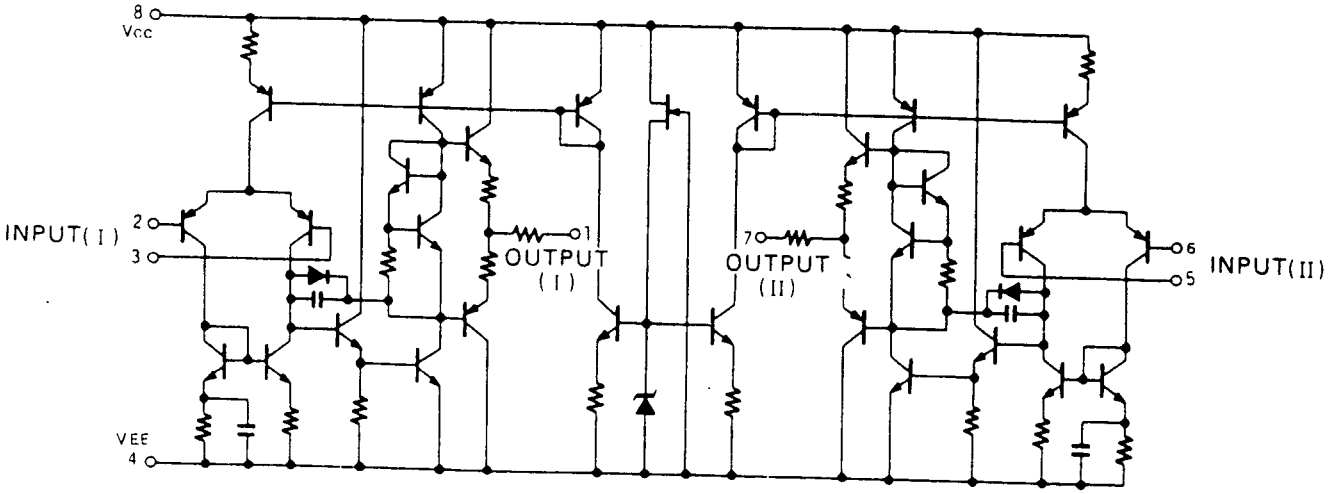
Specifications and features are subject to change without notice.

BLOCK DIAGRAM



IC BLOCK DIAGRAM

NJM-4560DX, NJM-4558DX



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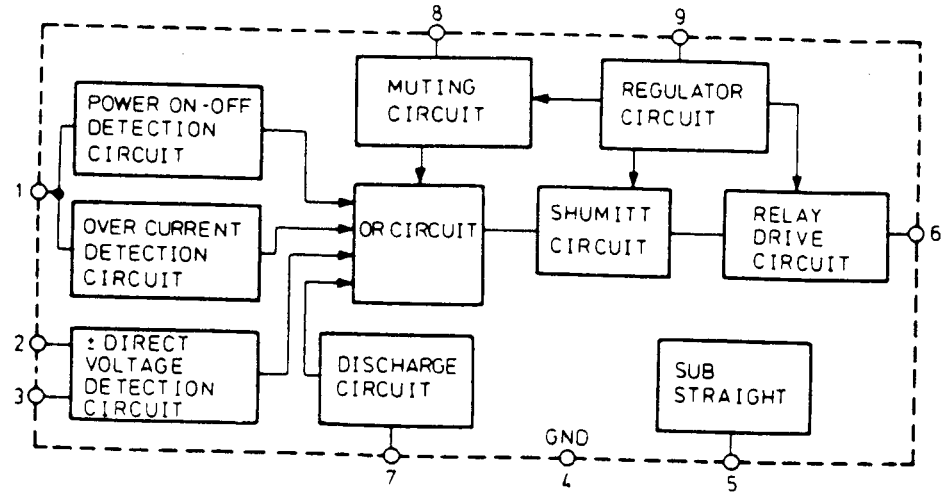
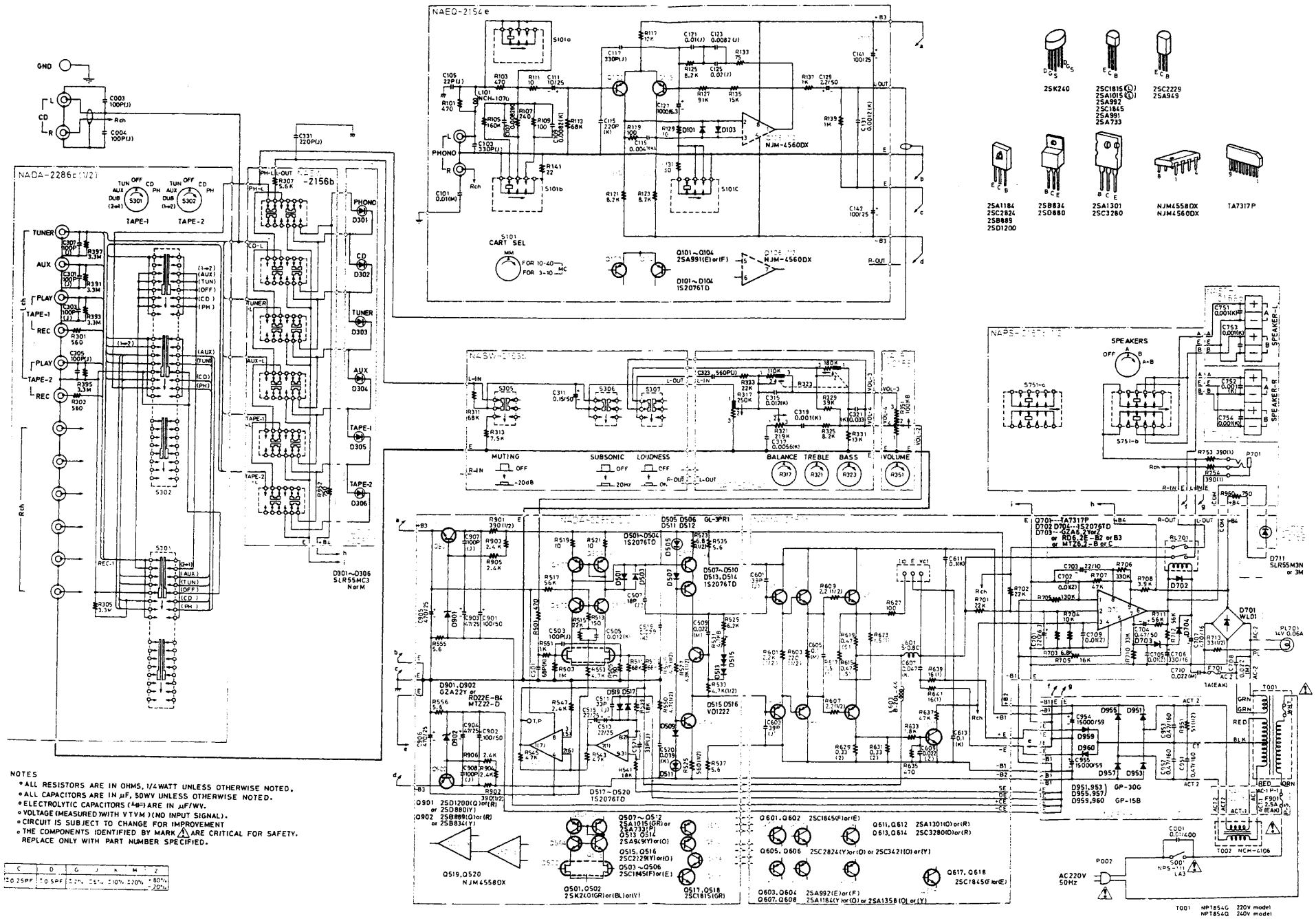
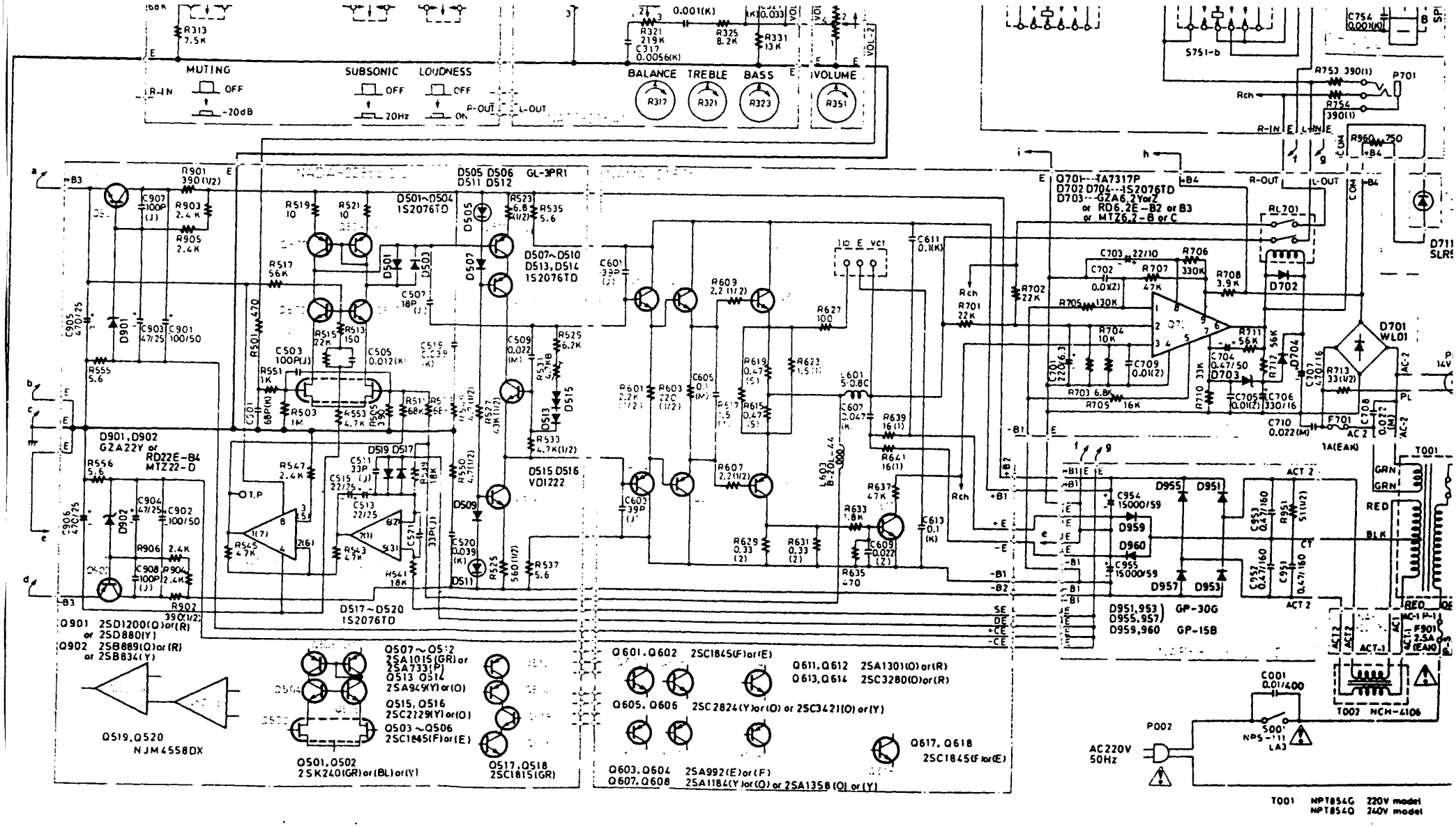




NOTES

- ALL RESISTORS ARE IN OHMS, 1/4WATT UNLESS OTHERWISE NOTED.
- ALL CAPACITORS ARE IN μF, 50WV UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊕⊖) ARE IN μF/WV.
- VOLTAGE (MEASURED WITH VTVM) (NO INPUT SIGNAL).
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT
- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.

C	D	G	J	K	M	Z
±0.25PF	±0.5PF	±2%	±5%	±10%	±20%	+80% -20%


MUTING
SUBSONIC
LOUDNESS
BALANCE
TREBLE
BASS
VOLUME
R-IN
L-OUT
R-OUT
D901,D902
GZA22Y or
RD22E-B4
MTZ22-D
D505 D506 GL-3PR1
D511 D512
D501~D504
1S2076TD
D507~D510
D513,D514
1S2076TD
D515 D516
VD1222
D517~D520
1S2076TD
Q901 2SD1200(O)or(R)
or 2SD880(Y)
Q902 2SB889(O)or(R)
or 2SB834(Y)
Q519,Q520
NJM4558DX
Q507~Q512
2SA1015(GR)or
2SA733(P)
Q513 Q514
2SA949(Y)or(O)
Q515,Q516
2SC2229(Y)or(O)
Q503~Q506
2SC1845(F)or(E)
Q501,Q502
2SK240(GR)or(BL)or(Y)
Q517,Q518
2SC1815(GR)
Q601,Q602 2SC1845(F)or(E)
Q611,Q612 2SA1301(O)or(R)
Q613,Q614 2SC3280(O)or(R)
Q605,Q606 2SC2824(Y)or(O) or 2SC3421(O)or(Y)
Q603,Q604 2SA992(E)or(F)
Q607,Q608 2SA1184(Y)or(O) or 2SA1358(O)or(Y)
Q617,Q618
2SC1845(F)or(E)
Q701 TA7317P
D702 D704 1S2076TD
D703 GZA6.2YorZ
or RD6.2E-B2 or B3
or MTZ6.2-B or C
D951,953
D955,957
D959,960
GP-30G
GP-15B
T001 NPT854G 220V model
NPT854Q 240V model
T002 NCH-4106
AC220V
50Hz
ACT 2
ACT-1
RED
BLK
GRN
YEL

ONKYO COR